

Part #	Prepared By
Project	Notes
Type	
Date	

6" Square, F-Class Gen V

Lensed LED Downlight, 750-7000 Lumens



Features & Specifications

ELECTRICAL SYSTEM

- 750 - 7000 lumens
- 2700K - 5000K CCT
- Optional Tunable White, 2700K - 6500K or 1800K - 4000K CCT
- 80 CRI with 3 SDCM color consistency (+90 CRI optional)
- Standard 0-10V 1% dimming driver, ZDM; optional drivers available
- 120V - 277V Universal Input Volts, 347V option
- Minimum 50,000 hour lifetime at L70
- -20°C to 30°C Ambient Operating Temperature Range

OPTICS

- Square architectural-grade reflector with regressed lens
- Polycarbonate, Glass and Acrylic lens options
- Reflectors available in Alzak® and painted finishes
- 60° Medium distribution

FRAME & MOUNTING

- Galvanized steel frame with integrated junction box featuring hinged access covers with spring retaining latches
- Vertically adjustable rigid formed mounting brackets that accept a variety of mounting bars with auxiliary nail holes and T-bar slots
- T-Bars included, suitable for joist spacing from 12" to 24"
- Supports straight conduit runs - (3) 3/4" knockouts
- Through branch wiring - (8) #12 AWG (4 in, 4 out), 90°C conductors
- Accessibility to all LED components from below ceiling
- Flush to the ceiling reflectors, secured by high quality friction clips

Listings

- ETL certified to UL 1598 and UL8750 requirements
- Tested according to LM-79 and LM-80 standards
- Energy Star® certified versions available (see Vantage Energy Star® guide for details)
- Damp Location and Wet Location Under Covered Ceiling (per NEC 410 & UL 1598)
- Buy American Act (BAA)

Warranty & Notes

- 5-year limited warranty on LED module and driver
- www.vantageltg.com/product-warranty
- Photometric tests performed by an accredited NVLP facility and in accordance to IESNA LM-79-2008 testing procedures
- Insulation cannot be in contact with luminaire

Lumens*

Nominal Lumens	Delivered Lumens	Wattage	Lumens Per Watt
750	643	9.4	68.40
1100	943	15.4	61.23
1500	1286	21.6	59.54
2000	1714	27.2	63.01
3000	2572	36.79	69.91
4000	3429	45.6	75.20
5000	4286	58.5	73.26
6000	5143	60.1	85.57
7000	6001	70.35	85.30

All measured at 3500K with a standard medium distribution
*Actual Wattage/Lumens may vary.

Ordering Information

EXAMPLE: SQ66VEFLEDU-1130K-LSQ6611-SGC-ZDM

Series	Voltage	Lumens	Kelvin (CCT)	Reflector/Lens	Finishes	Options**
SQ66VEFLED	U - 120V-277V 1 - 120V 2 - 277V 3 - 347V (347V Step Down Transformer) *Must provide voltage when optional drivers are selected.	07 - 750 11 - 1100 15 - 1500 20 - 2000 30 - 3000 40 - 4000 50 - 5000 60 - 6000 70 - 7000	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K TWC - Tunable White Full Color (2700K-6500K)* TWW - Turnable White Warm Color (1800K-4000K)* DTW - Dim-to-Warm (1800K-3000K)** *Available up to 2000 lumens **Available up to 5000 lumens	LSQ6611 LSQ6611P LSQ6611FR LSQ6611FRP LSQ6614 LSQ6614P LSQ6612D 20° LSQ6614D 40° LSQ6616D 60° LSQ6618D 80°	SCL Specular Clear SGC Soft Glow Clear WHT White Matte *All trims supplied standard with white painted flange.	ZDM (standard) DTD DTDHL DMX DCA TDM DMM DMMHO DL-2 DL-3 LDE1 PEQ0 PSQ0 HCR PF EM17 EM20 EM-CW-LED GR-44-"xx" GTD SENSDYOC BRGESEN

*Lens Notes

LSQ6611 - Medium Beam Clear Glass Lensed Reflector
 LSQ6611P - Medium Beam Clear Polycarbonate Lensed Reflector
 LSQ6611FR - Medium Beam Frosted Glass Lensed Reflector
 LSQ6611FRP - Medium Beam Frosted Polycarbonate Lensed Reflector
 LSQ6614 - Medium Beam Prismatic Glass Lensed Reflector
 LSQ6614P - Medium Beam Prismatic Acrylic Lensed Reflector
 LSQ6612D - BeamShaper® Lens, 20° Beam Angle Reflector
 LSQ6614D - BeamShaper® Lens, 40° Beam Angle Reflector
 LSQ6616D - BeamShaper® Lens, 60° Beam Angle Reflector
 LSQ6618D - BeamShaper® Lens, 80° Beam Angle Reflector

**Options Notes

ZDM - 0-10V 1% dimming driver (standard)
 DTD - 0-10V 0.1% dimming driver. (up to 4000 lumens)
 DTDHL - 0-10V 0.1% dimming driver. (use with 5000 - 7000 lumens)
 DMX - DMX with RDM dimming driver, requires DCA

DCA - Daisy Chain Adaptor

TDM - Triac (Forward Phase, 120V only) dimming driver. (up to 5000 lumens)

DMM - Dali Driver (up To 5000 Lumens)

DMMHO - Dali Driver (use with 6000 and 7000 Lumens)

TWC - Tunable White Full Color 27k-65k, 90+ Cri With 0-10v Dual Control And 0.1% Dimming. (up to 2000 Lumens)

TWW - Turnable White Warm Color 18k-40k, 90+ Cri With 0-10v Dual Control And 0.1% Dimming. (up to 2000 Lumens)

DTW - Dim-to-Warm 18K-30K, 90CRI with 0-10V. (up to 5000 lumens)

DL-2 - Lutron 2-Wire Hi-Lume dimming driver. (up to 3000 lumens)

DL-3 - Lutron Hi-Lume 1% 3-wire dimming driver. (up to 3000 lumens)

LDE1 - Lutron Hi-Lume 1% with Soft-On, Fade-to-Black dimming driver. (up to 4000 lumens)

PEQ0 - Lutron Hi-Lume Premier 0.1% with Soft-On, Fade-to-Black dimming driver. (up to 4000 lumens)

PSQ0 - Lutron Eco-system Tunable White Driver .1% (up to 2000 lumens, requires TWW or TWC and ECOSYSTEM PROJECT ID)

HCR - High CRI, 90+ minimum. (Not available in 5000 Kelvin)

PF - Polished Flange

AT - Air Tight

EM17 - Battery Backup W/remote Test Button & Indicator Light (for 800-5000 Lumens)

EM20 - Battery Backup W/remote Test Button & Indicator Light (for above 5000 Lumen)

EM-CW-LED - Cold Weather Rated Emergency Driver

GR-66-"xx" - 6" Goof Ring (inner Dimension - Specify outer dimension in place of "xx")

GTD - Generator Transfer Device

SENSDYOC - Daylight/occupancy Sensor - remote mount

BRGESEN - Bridge up to 400 Watts for Sensdyoc

Vantage reserves the right to change components, finishes or design details in any manner which does not alter the installed appearance or reduce performance and intended function.

6" Sqaure, F-Class Gen V

Lensed LED Downlight, 750-7000 Lumens

Dimensional Data

Ceiling Cut Out 6.50" x 6.50"

Above Ceiling Height
with 5/8" Ceiling

4.55" ≤ 5000L
4.86" 4000 & 5000L

Above Ceiling Height
Max Ceiling Thickness

1.30" - 3.87"

Min Ceiling Thickness

0.25" - 4.92"

Above Ceiling Height
with 5/8" Ceiling

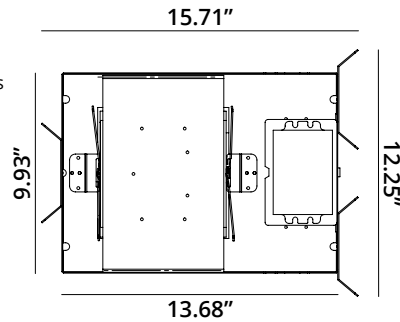
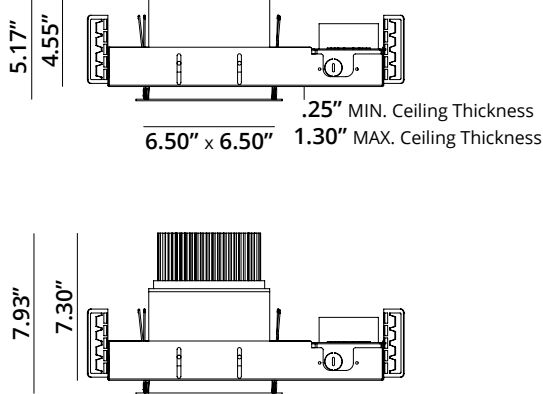
7.30" 6000L & 7000L

Above Ceiling Height
Max Ceiling Thickness

1.30" - 6.63"

Min Ceiling Thickness

0.25" - 7.68"



Reflector Finishes



WHT
White Matte



SGC
Soft Glow Clear



SCL
Specular Clear

Photometry

LSQ6611 - 60° Medium Distribution

Model
SQ66VEFLEDU-2035

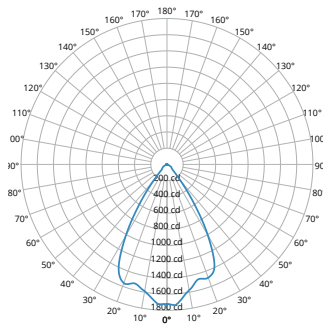
Lumens
1,714

Watts
27.2

Efficacy
63.01

SC
1.02

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ' 27 fc	9.8 ' 12.2 ' 14.6 ' 17.1 ' 19.5 ' 24.4 ' 29.3 ' 36.6 '	

Candela Table

0.00°	1,742
0.00°	1,742
5.00°	1,704
10.00°	1,574
15.00°	1,471
20.00°	1,487
30.00°	1,006
40.00°	246
50.00°	79
60.00°	57
70.00°	9
80.00°	6
90.00°	4

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	1,152	67%
0° - 40°	1,531	89%
0° - 60°	1,653	96%
60° - 90°	31	2%
0° - 20°	567	33%
20° - 50°	1,046	61%
50° - 70°	58	3%
70° - 90°	13	1%
0° - 90°	1,684	98%
90° - 180°	30	2%
Total	1,714	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	8.2 ft	~ 27 fc
10 ft	10.2 ft	~ 17 fc
12 ft	12.2 ft	~ 12 fc
8 ft	6.1 ft	~ 48 fc
10 ft	7.6 ft	~ 31 fc
12 ft	9.2 ft	~ 22 fc
8 ft	4.1 ft	~ 109 fc
10 ft	5.1 ft	~ 70 fc
12 ft	6.1 ft	~ 48 fc

* approximate direct light level at floor based on spacing criterion overlap

MULTIPLIER

CRI	Multiplier	Kelvin	Multiplier	Reflector Finish	Multiplier
80	1	2700K	0.939	SCL	1
90	0.8	3000K	0.975	SGC	0.95
		3500K	1	WHT	0.87
		4000K	1.035		
		5000K	1.098		

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